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Edge, E. R.

Nevada: Mineral, Lander, Lyon Cos.

1934







1934

Zoology Field Class: June 27-August 1, 1934  
Nevada: Mineral, Lander & Lyon Cos.

Edge, E. R.

Catalog of Specimens  
Nos. 500 - 620

Itinerary

Species accounts







ER

Box  
1934

# Patatalogue

2 mi. SW Pine Grove, 7250 ft., Mineral Co., Nev.

June 28 1934

500 ♀ *P. maniculatus* 164-71-20-19 = 24.2 gms 4 emb. 11 mm.

501 ♂ " 163-64-20-20 = 21.8 gms.

~~502 ♀ *Callospermophilus lateralis* 223-79-40-18 = 103 gms. sent to Edge~~

503 ♀ *Butorias quadricittatus* 195-84-29-21 = 43.5 gms

504 ♂ *Wes. Tanager* June 29, 1934 30 gms.

505 ♀ *P. truei* 165-81-23-26 = 20.3 2m.

506 ♀ *P. maniculatus* 153-62-20-19 = 26.8 gms 4 emb. 18 mm.

507 ♀ *P. maniculatus* 173-73-20-18 = 21.8

508 ♂ *P.* " 161-72-20-18 = 20.3 gms

509 ♂ *P.* " 157-69-20-19 = 20.0 gms

510 ♂ *Green-tail Towhee* 38.3 gms.

June 30, 1934

511 ♀ *Perog. parvus* 172-93-24-8 = 16.0 gms 8 emb 2 mm

~~512 ♀ " " 164-85-23-8 = 14.0 gms. Sent to Edge~~

513 ♂ *P. maniculatus* 143-63-21-18 = 16.2 gms.

514 ♂ " " 164-70-21-19 = 22 gms

515 ♀ " " 154 69 21-19 = 16.8 gms

~~516 ♀ *Thomomys quadratus* 141-52-26-8 = 99 gms. Sent to Edge~~

517 ♀ *Junco* 13.6 gms.

518 ♀ *Thomomys quadratus* 178-52-26-6 = 55.5 gms.

519 ♂ *Texas Night Hawk* 60.8 gms.

July 1, 1934.

12 mi. S Yerington, 4600 ft., W. Walker R., Lyon Co., Nev.

520 ♂ *Hawk finch* 20.5 gms.

over





Edge  
1934

# Catalogue

Q  
12

July 2, 1934

12 mi. S Yerington, 4600 ft., W. Walker R., Lyon Co., Nev.

521 R. megalotis - 138-67-18-15 = 11.7

522 P. truei - 183-86-25-26 = 30.7 gm.

523 ♀ Peroq. formosus - 180-101-23-11 = 16.9 gms.

524 ♀ Peroq. formosus - 174-95-23-10 = 16.4 gms.

525 ♂ House finch 28.8 gms.

~~526 P. crinitus - 171-87-20-20 = 16.3 gms.~~ Sent to Edge

527 P. maniculatus - 150-61-20-19 = 16.3 gms.

528 ♀ P. crinitus 150-76-20-19 = 14.6 gms.

July 3, 1934

529 ♂ Yellow Warbler 9 gms.

~~530 ♂ P. maniculatus - 163-68-20-18 = 22.2 gms.~~ Sent to Edge

531 ♀ P. formosus - 176-99-24-10 = 15.7 gms.

532 ♂ P. maniculatus - 146-56-20-18 = 15.5 gms.

533 ♂ R. megalotis - 136-62-17-15 = 11.1 gms.

534 ♀ R. megalotis 132-63-17-18 = 10.5 gms.

535 ♂ Mourning dove - 117.3 gms.

July 4, 1934 -

~~536~~ 10 mi. S Yerington, 4500 ft., Mason Valley, Lyon Co., Nev.

~~536 ♀ Dipodomys ordii 225-124-38-12 = 45.7 gms.~~ Sent to Edge 3 emb. 12 mm

537 ♀ " " 223-119-38-12 = 40.2 gms.

538 ♀ R. megalotis - 143-70-16-14 = 12.7 gms 5 emb. 3 mm

539 ♀ " " 141-64-17-15 = 10.8 gms 4 emb. 1 mm.

11 3/4 mi S + 2 3/4 mi. E Yerington 4650 ft., Mason Valley, Lyon Co., Nev.

540 ♂ Dipodomys merriami - 215-122-35-13 = 32.0 gms.

541 ♀ Peroq. longimembris 135-72-18-7 = 7.8 gms. 5 emb. 2 mm

~~542 ♂ " " 132-73-18-7 = 7.8 gms.~~ Sent to Edge





Edge  
1934

# Patatalogue

July 4  $11\frac{3}{4}$  mi S  $2\frac{3}{4}$  mi E, Merington, 4650ft, <sup>Mason valley,</sup> Lyon Co., Nev. <sup>Hemibry 7mm.</sup>

543 ♀ *Merodopodops pallidus* - 155-84-24-9 - 13.9 gms

544 ♂ " " 163-88-25-10 - 14.3 gms.

545 ♀ " " 157-83-25-10 - 13.5 gms <sup>Hemibry 3mm</sup>

546 ♂ " " 168-86-26-11 - 14.3 gms -

547 ♀ Black throated Sparrow. 14.2 gms.

July 5, 1934

$10\frac{1}{2}$  mi S Merington, 4500 ft., Walker River <sup>Lyon Co.,</sup> Nev.

548 ♂ Redwing Blackbird 63.5 gms -

549 ♂ W. Bluebird - 27.5 gms.

550 ♂ Lazuli Bunting 13.7 gms.

551 ♂ Maryland Yellowthroat 10.0 gms.

552 ♂ Savannah Sparrow 18.0 gms.

553 ♀ West. Robin 82.0 gms -

July 6, 1934

bull only - 554 ♂ *L. cal. deserticola* 571-70-120-127 = 2004.4 gms.

555 ♂ Marsh Wren - 9 gms -

556 ♂ Spotted Towhee - 37.6 gms

557 ♂ Arkansas Kingbird - 29.7 gms.

558 ♀ W. Meadow lark - 88.5 gms.

559 ♂ Redwing Blackbird 64.3 gms.

560 ♀? Red Shafted Flicker 132.0 gms.

<sup>12 mi S Merington 4600ft W Walker R., Lyon Co., Nev.</sup>

561 ♀ Trail? Flycatcher 12 gms

July 8, 1934.

~~562~~ 3 mi S Shurz, 4100ft., Mineral Co., Nev.

562 ♂ *P. maniculatus* - 152-61-24-18 = 20.0 gms

563 ♂ *Perog. longimembris* 130-73-18-6 = 9.8 gms

✓over





Edge

1934

# Catalogue

July 8<sup>th</sup> - Contd -

7 mi NW Shung 4500 ft., Mineral Co., Nev.

564 ♀ *Onychomys leucogaster brevicaudus*.

565 ♂ *Perom. longimembris* 124-68-19-6 = 7.0 gms.

566 ♂ " " 127-70-19-6 = 7.2 gms

567 ♀ " " 128-70-18-6 = 6.65 gms.

568 ♀ " " 129-72-19-6 = 6.4 gms.

569 ♀ *Dip. m. lewipes* 273-163-43-14 = 72.3 gms <sup>2 emb-17 mm</sup>

~~570 ♂ " " 246 123 -43-14 = 66.8 gms <sup>Sent to Edge</sup>~~

3 mi S Shung 4100 ft., Mineral Co., Nev.

571 ♀ *Harry Woodpecker* - 58.3 gms.

572 *Leopard Lizard* -

573 ♂ *Ammodramus leucurus* - 177-28 -38-11 = 108.7 gms

July 9. 3 mi S Shung, 4100 ft., Mineral Co., Nev.

~~574 ♀ *Pipistrellus hesperus* 81-31-6-13 to 5 = 5.5 gms <sup>sent to Edge</sup>~~

575 ♀ *Microdipodops pallidus* - 165-93-26-9 = 12.8 gms.

~~576 ♂ " " 159-84-25.5-9 = 12.9 gms <sup>Sent to Edge</sup>~~

577 ♂ *Perom. maniculatus* - 163-72-21-19 = 19.1 gms

578 ♂ " " 169-77-21-18 = 20.0 gms.

579 ♀ " " 160-67-19-17 = 18.4 gms.

580 ♂ *Black throated Sparrow*. 13.0 grams.

583 *Spade footed Toad*.

582 ♂ *Dip. m. merriami* - 240-139-36-14 = 49.0 gms -

581 ♀ " " 233-130-37-14 = 38.7

584 ♀ *Barn Swallow*. 14.8 gms

585 *Grind iron Lizard*. (Walker Lake Shore)

July 10

586 ♀ *Ammo. leucurus* - 198-59-37-11 = 73 gms

587 ♂ *Say's Lizard* 13.2 gms.





1934

# Catalogue

July 10<sup>th</sup> <sup>Pinto</sup>

3 mi S Shung, 4100 ft., Mineral Co., Nev.

588 ♀ *Sazaei* hunting - 15.6 gms.

589 ♂ *Sceloporus* Magister lizard

590 " " "

591 *Thomomys bottae* - 220-73-30-6 = 118.4

592 ♂ " " 222-74-31.5-6 = 129.8 gms

593 ♂ " " 245-79-33-6 = 135.6 gms

594 ♀ " 172-61-27-5 = 54.1 gms.

595 ♀ " " 177-64-27-5 = 58.3 gms.

July 12<sup>th</sup> Sapon Canyon, 8900 ft., Mt Grant, Mineral Co., Nev.

596 ♂ - *Perogn. parvus* - 190-99-24.5-8 = 22.1 gms.

597 ♂ " " 170-88-24-8 = 16.3 gms.

598 ♂ *Eutamias minimus* - 171-78-29-14 = 29.0 gms

599 ♂ - *Thomomys quadratus* - 193-42-29-5.5 = 110.3 gms.

600 ♂ - " " 208-60-28-5.5 = 97.2 gms.

601 ♂ - *Callos. lateralis* - 220-82-39-19 = 89.4 gms.

602 ♂ *Quercus* 20.0 gms.

603 ♂ Mt. Bluebird 30.5 gms.

July 13<sup>th</sup>

604 ♂ *Microtus montanus* - 177-38-21-14 = 58.6 gms

~~605 ♂ " " 147-38-18-12 = 40.7 gms~~ Sent to Edge

606 ♂ " " 171-40-20-14 = 57.5 gms

607 ♀ " " 123-34-19-12 = 23.5 gms.

608 ♀ *Thomomys quadratus* 196-63-28-6 = 98.0 gms

609 ♀ " " 179-56-26-6 = 73.0 gms.

610 ♂ - *Microtus montanus* - 163-41-20-12 = 41.5 gms

611 ♀ " " 183-44-21-12 = 48.4 gms 6 emb - 1 mm.

612 ♀ " " 170.45-22-12-46.3 gms 4 emb 11 mm.





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# Palatogue

July 13th Cont'd.

613 - ♂? Horned Lark - 29.0 gms.

614 ♀ M. montanus - 143-37-20-12-31.2 gms.

July 14th

615 ♂ Microtus montanus - 173-45-20-13-40.0 gms.

616 ♀ " " 154-35-20-14-39.2 gms

617 ♀ " " 153-37-21-14-32.7 gms

618 ♂ " " 151-39-21-13-36.1 gms

July 15 1934

Cottonwood Creek 9400 ft., Mt Grant, Mineral Co., Nev.

619 - Toad -

Skeleton  
only

620 ♂ Mt. Quail —

170 gms Crop contents  
saved.

621 ♂ Microtus mordax - 180-64-21-14-37.4 gms. Sent to Edge

622 ♀ Neotoma cinerea - 291-113-40-31.5-215.5 gms. Sent to Edge









Edge 1934

## Itinerary

June 27<sup>th</sup> 2 mi. SW Pine Grove, 7250 ft.,  
Mineral Co. Nevada

Left Berkeley Calif at 9 a.m. June 26, 1934  
in three cars. party seven persons;  
Brode, J. Stanley, Edge, Elton R., Alathers  
Dawson A., Hall, E. Raymond, Johnson, David H.  
Palmer, Fletcher G., Russell, Ward C.

Drove via Parquinez Bridge, Sacramento,  
Placerville, South end Lake Tahoe, Glenbrook,  
Parson City, Minden, Gardnerville to a  
point in the hills about 15 mi. S of  
Gardnerville where we slept beside the  
road. Left our overnight camp <sup>6<sup>00</sup> a.m.</sup> and drove  
via Wellington eastward along the  
West Walker River into Mason Valley, thence  
southward to a point  $4\frac{1}{2}$  miles N. E. of  
Pine Grove, turned right and drove  
up a Canyon past Pine Grove to camp  
site as given at head of page. Arrived  
here about 1130 a.m.

Started putting out traps about 430 p.m.  
beginning at a point up the Canyon  
about two hundred yds above the camp  
and going in an easterly direction up  
a small Canyon <sup>S. side</sup> - ~~about~~ returning to  
camp along the N side and over  
the top of the ridge. 40 goat sized  
mouse trap, and 2 rat traps were used.





Itinerary  
June 1934

June 27 cont'd.

Appx. 25 traps were placed in Artemisia at the bottom of the canyon - space on an average of about 8 paces. The remaining traps were irregularly distributed in the Piñon and among patches of broken rock - Soil: Sandy loam <sup>with broken</sup> rock.

June 28. Took 14 mammals from trap line, species as follows. 14 P. maniculatus sonoriensis -

Visited trap line 1<sup>00</sup> p.m. - twenty five traps out - 15 in Artemisia - 10 in fragmented rock at top of ridge - Total specimens 3 mammals and 1 green tailed towhee - mammals as follows -

1 Pallospermophilus lateralis trepidus,

1 Eutamias minimus and 1 Eutamias quadrivittatus  
Shot one male W. Tanager.

Drove up Canyon S with Hall to point about 2 miles S of camp. Set out traps at three places, 20 traps (got mouse) ~~at end~~ farthest out 7800 ft in low Artemisia with occasional piñon pines - soil sandy loam with considerable amount of broken rock present 22 traps were put out about  $\frac{1}{3}$  mi back along road towards the camp - vegetation much same except



Itinerary  
Edge  
1934

June 28  
cont'd

even sparser up the hill - Soil same.  
15 traps were put out about half  
way back to Camp - <sup>7600 ft.</sup> Artemesia  
here was thicker and of taller  
growth, occasional piñon pines occurred  
Soil; Sandy loam.

June 29

Took up traps put out with Hall  
total 21 Mammals - 19 P. maniculatus  
2 P. truei. With respect to Pine Grove  
this location was about  $3\frac{1}{2}$  miles SW  
of Pine Grove and specimens are so  
labeled. Those from the last station, i.e.  
nearer Camp  $2\frac{3}{4}$  miles SW Pine Grove and  
elev. 7600 ft.

Took up trap that had been out all day  
yesterday about 8 am - 15 traps in Artemesia  
yielded 5 P. maniculatus, 9 traps in rock  
outcrop top of ridge yielded nothing.

Put out 44 traps - 41 goat house - 3 rat  
N of Camp in sage brush and  
open hillsides among piñons - soil  
sandy loam in former, and sand, broken  
rock and rock outcrop in latter. <sup>Spaced</sup> about 7 paces.

June 30

Took up traps south of Camp - total  
15 mammals and 1 junco, mammals as  
follows - 2 Perog. parvus and 13 P. maniculatus  
The tall fairly dense Artemesia appeared  
to afford best trapping.





Itinerary  
Edge  
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June 30<sup>th</sup> Cont'd. Put out 3 double gopher sets north of camp about 7<sup>00</sup> a.m. took two T. quadratus by 1<sup>00</sup> p.m.

This camp is located in what appeared to be the upper part of the Pinjon belt in steeply rolling country of alternate ridges and narrow valleys. The hillsides near the camp have a fairly dense growth of Pinjon pines, the valleys support a more or less dense growth of Artemisia with some Chrysothamnus scattered here and there - On some of the higher and rocky hillsides only a meager growth of low Artemisia occurs. On the higher summits Mountain Mahogany occurs - The soil varies - In the valleys there may be sandy loam, on the hillsides this is mixed with a great deal of fragmented rock. On the sides of the ridges and on the tops frequent outcrops of a volcanic type of rock can be found. Water is not abundant but an occasional spring or seepage appears and in their vicinity a small patch of meadow usually





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June 30 cont'd

occurs. This has a thick carpet of short grass - The shortness may be due to sheep grazing - Large numbers of sheep apparently pasture thru this entire region earlier in the season. There are numerous prospect holes in the vicinity and the country around Pine Grove has ~~been~~ had the vegetation somewhat modified by man, as there are several large mines (gold) there which give evidence of having employed a considerable number of men years ago. The road in thru Pine Grove is fairly steep in a number of places as well as rough - but no difficulty was encountered in getting over it.

July 1 -

Broke camp 2 mi. SW Pine Grove and left there at 9<sup>00</sup> a.m. Roadster, two trucks, all equipment and personnel. The road <sup>straight N down the canyon</sup> out to the main highway appeared was a better road than the one by which we entered.

Reached the new camp site on the bank of the West Walker River about 1030 a.m. Location is



# Itinerary

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July 1<sup>st</sup> Cont. -

12 mi. S Yerington, 4600 ft., W. Walker R., Lyon Co., Nev.

Put out 50 traps 10 along River bank 5 thru willows and brush - remainder over gravelly and rocky area which included relatively level area, hillside and top of ridge - The hillside was very rocky with many boulders of considerable size. Dominant vegetation Atriplex

July 2. Took up traps which contained a total of eleven mammals as follows -  
1 R. megalotis, 1 P. truei, 3 Perog. formosus,  
2 P. erinitus, 4 P. maniculatus. The relatively level area gave very poor results.

Put out 40 traps NE of camp - (Gout)  
15 along bank irrigation ditch { Atriplex  
willows  
cottonwoods  
10 in most grassy area - Willows

15 on side and summit of rocky ridge - Atriplex

July 3

Took up traps this morning total 16 mammals as follows: 8 P. maniculatus  
2 P. erinitus, 2 Perog. formosus, 1 Perog. longimembris, 3 R. megalotis

Put out 18 Gout and 1 rat trap on sandy ridge at edge of alfalfa field - mixture of large shrubs - Atriplex and others on sandy soil - 10 mi S Yerington 4500 ft., Mason Valley



Edge Itinerary  
1934

July 3<sup>rd</sup> Cont'd

Put out 32 traps (Sovt.) in a sandy draw  
11  $\frac{3}{4}$  mi S, 2  $\frac{3}{4}$  mi E of Yerington 4650 ft, Mason Valley.  
Sandy at bottom of gully with  
patches of loose sand on the gently  
sloping sides - Vegetation scattered Atriplex  
of rather low habit.

July 4<sup>th</sup>

From the 32 traps at 11  $\frac{3}{4}$  mi S, 2  $\frac{3}{4}$  mi E  
Yerington, Mason Valley took 8 mammals  
as follows: 4 Merodipodops pallidus.

2 Perognathus longimembris 2 Dipodomys merriami

From 18 traps on sand ridge 10 mi S  
Yerington, 4500 ft, Mason Valley took

7 mammals: 5 Dipodomys ordii, 2 Reithrodontomys  
megalois.

Put out 3 #1 steel traps along south  
bank of River across from the camp.

July 5<sup>th</sup>

Hunted for birds this morning  
10  $\frac{1}{2}$  mi S Yerington, W. Walker River, Lyon Co. Nev.  
higher ground along river, large cottonwood  
trees; but off to south tule swamps  
and willows. Considerable bird life present.  
Species collected are indicated in Catalogue  
Forms seen but not taken - Black crowned Night  
heron, Meadow lark, Song Sparrow, Downy  
Wood pecker, <sup>Marsh</sup> Red tailed hawk? Sparrowhawk,  
Quail, Killdeer, Cliff Swallows, Cow-birds,  
Visited steel traps first thing in the morning





Boaz

# Itinerary

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July 5<sup>th</sup> Cont'd - Not disturbed and no tracks near.

July 6<sup>th</sup> Hunted birds this morning 10½ mi S  
Herrington, <sup>4500 ft.</sup> W. Walker River, Lyon Co., Nev. -  
Birds seen but not already recorded in  
itinerary or Catalogue: Bush tit, Hairy?  
woodpecker. 3 Steel traps across river  
from Camp unmolested.

This camp was located along side  
of the River on relatively low sandy  
ground. There were numerous Cotton  
woods and willows along the bank  
with Atriplex back from the river -  
The valley was two or three hundred  
yards wide at this point narrowing  
to a gorge about ¼ mile ~~west~~ west of  
the camp - Stony and gravelly ridges  
rose in succession to the main ridges  
perhaps 800 to 1000 ft above the river -  
Several irrigation ditches are on  
each side of the river - with  
Cottonwoods and willows on either bank -  
The river itself had a fairly rapid fall  
with rocky bottom in most places at the  
here and there in quieter parts the  
bottom and shores were sandy - Birds  
were fairly numerous in the willows  
and willows near the river - Coy tracks  
were observed at several places along



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## Itinerary

July 6<sup>th</sup> - river - none taken.

July 7<sup>th</sup> - Tech up the Bataf trap - no results.

Broke camp at the Bataf trap and  
proceed via Harrington to Shurz. The  
road was thru the valley. Many  
open fields with occasional waste  
lots until we started over a  
low range of hills about 12  
miles NW of Shurz. This type of  
country lasted until almost into  
Shurz. - The vegetation was dominantly  
Atriplex at ~~dwarf~~ growth on  
the slopes and hill sides.

Camp was established 3 mi NW Shurz  
4100 ft., Mineral Co., Nev.

45 traps (gopher) were set out 7 mi NW  
of Shurz. 4500 ft., Mineral Co., on sandy  
slope mixed with a small amount  
black rock. - the vegetation was low  
Atriplex.

9 traps gopher were put out NW of camp  
in sandy soil good growth of Atriplex  
Received first mail of the trip this  
afternoon.

July 8<sup>th</sup> 45 traps, 7 mi. NW Shurz, 4500 ft., yielded  
9 mammals as follows: 6 Peromyscus longicaudus  
2 Dipodomys deserti, 1 O. l. brevicaudus. No  
black microdipodops as predicted by Russell.





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## Itinerary.

July 8<sup>th</sup> cont'd. 9 trap N of camp - 3 mi S Shurz.  
4100 ft. collected 3 mammals - 2 *P. maniculatus*  
1 *Perog. longimembris* -

In afternoon walked around camp  
and shot a hairy woodpecker, an  
*Ammospermophilus* and a leopard lizard.

Set out <sup>45 traps</sup> 35 gout traps in sand north  
of camp - sand soft and deep in  
many places with large *Chrysothamnus*  
and *Atriplex*. 10 traps along river?

bank in willows and small cottonwoods  
Shot a bat *Pipistrellus*.

July 9<sup>th</sup> Took 12 mammals - 9 in sand north of  
camp. 2 *Microdipodops* and 7 *Dip. Merriami*  
and 3 *P. maniculatus*. Shot a black throated  
sparrow and a barn swallow.

In <sup>late</sup> afternoon visited East shore of Walker  
Lake - about 8 mi S. Shurz. the shore line  
has receded markedly apparently with  
recent times as all shore lines are  
conspicuous - There are wide bands of gravel  
separating zones of sand - the sand  
zones seem well populated with *D. ordii*  
apparently in the lowest zone - Looks  
like it would be an excellent place to  
study succession. A number of  
birds were observed on the lake - gulls,  
cormorants and white pelican.



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## Itinerary

July 10<sup>th</sup> Put out 8 gopher sets along the river this morning - up stream from Camp. Shot two Lazuli bunting and an ammo.

Took four gopher by 1<sup>00</sup> pm and one more about six pm ~~from a to~~ Shot two bats at twilight.

This camp lies in a fairly broad valley with ~~at~~ seven thousand foot mountains to the west and a range of somewhat lesser altitude to the east. The general nature of the valley is sandy with *Atriplex* - *Chrysothamnus* and *Chaenopodium* of rather luxuriant growth in many places. There are many areas of soft sand which seems to shift about a little with varying winds. The lower land close to the river is cut into small Indian farms in many places and the river banks out possibly 1000 yds in some places support a growth of large cottonwood trees. Our camp was located in one of the groves and it proved to be a pleasant one. The river here is very shallow - but by digging ~~into~~ the middle of the stream we made a place to bathe.



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## Itinerary

July 11

Took up gopher traps this morning - nothing in the traps - The five live traps have not yielded any result tho have had them out around camp for several nights.

~~Left~~ ~~Broke~~ ~~camp~~ <sup>little</sup> before noon and left for Mt Grant via Shurz. The country was barren and rocky as the road followed the west shore of the lake but many of the cliffs contained caves and large crevices - no animal life was noted but a number of aquatic birds were observed on the lake. The road up Cotton-wood Canyon was about 10% grade with willows and cotton woods along the little creek that runs down the canyon - About a mile after turning off the main road and into the canyon we encountered the pinyons which extended from about 5500 to about 7500 ft. A camp of CCC workers are widening and improving the road - Above the pinyons sage brush Artemisia and patches of Mountain mahogany occur - the country is not precipitous but many rocky outcrops and points occur - We camped at Lapon Canyon 8900 ft. Mt. Grant, Mineral Co., Nev.





P  
1934

# Itinerary

July 11<sup>th</sup> Pond Put out 50 gopher traps, 2 rat traps and 4 gopher traps west from camp thru sage brush to rocky outcrops about  $\frac{1}{2}$  mile then north and back to camp along gully.

July 12<sup>th</sup> Took up traps this morning total 24 mammals as follows -

3 *Peromyscus parvus*, 1 *Eutamias minimus*, 18 *P. maniculatus* and 2 *Thomomys quadratus*. - Shot one *Callospermophilus lateralis* on rock outcrop - 1 Junco and 1 Brewers Sparrow.

Visited seven traps set in rock outcrop Took 1 immature *Callospermophilus* - shot two mountain blue birds -

Set out 3 gopher sets, 27 gopher traps in bog - 5 in sage above bog - all S.E. of Camp about two hundred yards -

July 13<sup>th</sup> Took 5 *Microtus* and 3 *P. maniculatus* in bog traps - nothing in sage. Live traps set near tent yielded 1 immat. *P. maniculatus*. Traps at rock outcrop  $\frac{1}{4}$  mile W camp yielded nothing. In sage Artemisia above bog saw a white crowned sparrow with two young able to fly a little. Shot into a flock of about 15 Horned larks on meadow south of bog and killed two - Took 3 gophers from the gopher sets. Left 34 gopher traps in the bog about 150 yds S.E. of



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## Itinerary

Camp. Visited <sup>gout.</sup> traps in bog about 1 pm and took 7 Microtus put out ten more traps. Several of the Microtus ~~was~~ <sup>was</sup> killed from exposure to the sun. Took 2 more Microtus at six pm when ~~the~~ <sup>the location of</sup> a number of the traps were changed. Put out three gopher sets on the way to the bog.

July 14 - Took up steel traps & gopher traps - nothing.

Took up the 45 traps from the bog - 11 mammals - 2 P. maniculatus and 9 Microtus montanus. Made sketch of Microtus burrows and runways. Took photo of habitat and a typical runway. Moved camp after lunch back down Cottonwood Canyon - to station:

Potterwood Creek 7400 ft., Mt. Grant, Mineral Co., Nev.

Set out in the evening 30 gout traps & <sup>4</sup> rat traps along and in rock slide just south of camp along creek up slope E of road and about 150 yds ~~above~~ <sup>above</sup> S of camp. Put out 1 gopher set in the little meadow at the top of the first slope.

This camp is pretty well up in the pinion belt. It lies in a rather narrow valley down which the Cottonwood creek flows - Large aspens line the creek banks - Artemisia with





Edge  
1934

## Itinerary

Scattered piñon grow on the narrow floor of the valley - while a fairly heavy stand of piñon cover the E and W. slopes of the valley - Willows and ~~willow~~ rose bushes line the banks of the smaller creeks which enter Cottonwood Creek. Mahogany can be seen from camp about three or four hundred feet up the E slope.

July 15<sup>th</sup> Took 11 mammals from the traps this morning: 2 Neotoma cinerea, 1 Thomomys quadratus, 1 Microtus monax, 7 P. maniculatus and 1 Sciurus from a trap in Cottonwood Creek near the camp.







Edge  
1934.

Birds observed and  
collected

June 28 to July 1<sup>st</sup> 2 mi. S.W. Pine Grove, 7250 ft. Mineral Co., Nev.

Western Tanager shot

Greentail Towhee trap

Texas Nighthawks shot

Poor-will

West Robin

West Blue Bird

Blue Jay - - -

Ruby <sup>throat</sup> hummer

Junco

Black throat gray warbler

Purple finch

Chipping Sparrow trap

July 1<sup>st</sup> 12 mi S Yerington, 4600 ft., W. Walker R. Lyon Co., Nev.

L. tail Chat

W. Blue bird

Lutescent Warbler

Yellow Warbler.

Magpie.

Mourning dove

Cliff Swallows.

Brewer + Red wing Blackbird - Marsh Hawk

W. Robin -

House finch

Song Sparrow

Sparrow Hawk

Red tail ? Hawk.

Sharp Phoebe.

Meadow lark

Green back Gold finch.

Arkansas King bird

G. blue heron

Black Crown night heron

Red wing Hawk

Bush tit

Quail





Edge  
1924

# Birds Observed

July 7<sup>th</sup> - Zuni L. Run, Soc. Co., Minn. Co., Nev.

W. Robin  
Mourning dove.  
Yellow warbler  
Hairy? woodpecker  
Tex. Nighthawk

Sage Thrasher  
Blackthroat sparrow  
Bullock? Oriole  
Arkansas Kingbird  
Great blue heron  
Cinnamon? Teal.  
Drew? and Redwing Blackbird  
Western Fly catcher

July 12 - Lapon Canyon 8900 ft., Mt Grant, Mineral Co., Nev.

Sage Thrasher

Junco.

Horned Lark

Sage Thrasher

Junco.

Mt. Bluebird.



Edg 1984

# Peromyscus maniculatus

June 28 2 mi. SW Pine Grove, 7250 ft.  
Mineral Co. Nevada:

Caught 14 in 40 traps set in Artemisia, in Piñon pines and in broken rock areas from canyon floor to summit of ridges.

Approximately  $\frac{1}{3}$  were young and immature.

June 29 Caught 24 in about 81 traps, 5 from locality trapped over June 28<sup>th</sup> and 19 from points  $3\frac{1}{2}$  miles SW and  $2\frac{3}{4}$  mi SW of Pine Grove, the majority from the former, the type of country much the same, i.e. Artemisia, Piñon and the soil sandy loam mixed with varying amounts of fragmented rock - young and immature made up from  $\frac{1}{3}$  to  $\frac{1}{2}$  the catch.

June 30 Took 13 in 44 traps approx  $\frac{1}{3}$  young - showed preference for tall relatively dense Artemisia.

July 2. Took 4 along River banks and willows and out in Atriplex in rocky & gravelly areas - 50 traps

July 3 Took 8 in 40 traps - Taken down in River bottom along irrigation banks and on stony hillsides



*Peromyscus maniculatus*

1934  
July 9th

3 mi S Shurz, 4100 ft., Mineral Co., Nev.

Three taken at edge of Cottonwood and sand area zone. One taken in willows near river was very dark in color -

July 12th

Mt Grant, Sappan Canyon 8900 ft., Mineral Co., Nev.

Took 18 in Sage brush, Sandy soil and around rock outcrops. Practically all were mature. The coloration seems more constant and on the average is perhaps slightly darker than those taken at 3 mi S. Shurz.

July 13 & 14

Three taken in first set and two on second day in the runways of *Microtus montanus* - in sets made for these latter animals in the bog about

150 yds. <sup>15</sup> of Camp  
Cottonwood Creek 7400 ft., Mt. Grant, Mineral Co., Nev.

July 15

Took seven from traps at base of rock slide and along edges of Cottonwood Creek, also in Sage brush.



July 1934  
June 28

*Peromyscus truei* truei

3 mi. SW Pine Grove, <sup>7800</sup>~~7500~~ ft., Mineral Co., Nevada

Caught two young on rocky hillside  
SW exposure 3 mi SW Pine Grove - sparse  
growth of low Artemisia. 55 traps in  
various habitats

July 2 12 mi. S Yerington, 4600 ft., W. Walker R. Lyon Co. Nev.

One taken in lower levels among Atriplex  
in rather gravelly soil with occasional  
large boulders.

July 8 two taken at edge of Cottonwoods and  
Atriplex sandy soil <sup>at traps</sup> 3 mi S Shung 4100<sup>ft</sup>

Mineral Co. Nev. - seem to be somewhat  
lighter colored.





*Peromyscus crinitus*

July 2. 12 mi S Merington, 4600ft., W. Walker R. Lyon Co., Nev.  
Two taken on rocky hillside north  
of camp - scattered *Atriplex*. Appx  
20 traps in that area.

July 3. Took two on stony ridge east of  
camp in scattered *Atriplex* + *Ephedra*.



*Reithrodontomys megalotis*

*megalotis*

Edge 1934  
June 28

2 mi. SW Pine Grove, 7250 ft., Mineral Co. Nevada  
None taken

July 2 12 mi S Yerington, 4600 ft., W. Walker R. Lyon Co., Nev.  
One taken in Willows along River bank.

July 3 - Took three in damp grassy patch  
in willows - river bottom.

July 4 Took 2 10 mi S Yerington, 4500 ft., Mason Valley,  
Lyon Co., Nev. on sandy ridge at edge of  
alfalfa fields - mixed large shrubs, part Atriplex  
18 traps out.



*Perognathus parvus* - *olivaceus*

Edge 1934

June 28 2 mi. SW Pine Grove, 7250 ft., Mineral Co. Nevada

June 30<sup>th</sup> Took 2 in relatively dense tall  
Artemisia near road - 44 traps in various  
habitats. Soil generally sandy loam -

July 12 - Sapon Canyon, 8900 ft., Mt Grant, Mineral Co., Nev.

Took three this morning in traps set in  
Artemisia - sandy soil, west of camp - 45 traps





Edge  
1934

*Perog. formosus*

July 2 12 mi. S Merington, 4600 ft, <sup>up Walker R.</sup> Lyon Co., Nevada  
Took 3 on rocky hillside north of  
Camp - scattered Atriplex. Approx  
20 traps in that area.

July 3 Took 2 in traps on rocky hillside east  
of camp - Ephedra bushes among the  
Atriplex were best places apparently.



*Perogn. longimembris* - panamint.

- July 3. 12 mi S Yerington, 4600 ft, W. Walker, Lyon Co., Nev.  
One taken on stony ridge east of camp  
under *Ephedra* bush - general vegetation  
was scattered *Atriplex* and occasional *Ephedra*
- July 4 - 10<sup>3</sup>/<sub>4</sub> mi S, 2<sup>3</sup>/<sub>4</sub> mi E Yerington Mason Valley,  
Lyon Co., Nev. ~~Two taken~~ 2 in sandy  
draw - scattered low *Atriplex*
- July 8 7 mi NW Shing, 4500 ft., ~~Mason~~ Lyon Co., Nev.  
took 6 on slope - dark rocks in sandy  
soil + *Atriplex* rather abundant. - 45 traps.



*Dipodomys leucogerys* -

Edge 1934  
June 28

2 mi SW Pine Grove, 7250 ft. Mineral Co. Nevada  
None taken - Taken by others in Artemisia



Dipodomys ordii

(Colours)

July 4

10 mi. S Springton, 4500 ft., Mason Valley,  
Lyons Co., Nev. Five taken on sand  
ridge at edge of alfalfa field - tall  
shrubs part Atriplex.





*Dipodomys merriami* -

July 4  $11\frac{3}{4}$  S +  $2\frac{3}{4}$  E mi. <sup>Neo.</sup> Herington Mason Valley, Lyon Co.,

Took two ~~in~~ sandy draw - scattered small Atriplex. Soil sandy but firm.

July 9, 3 mi S Shurz, 4100 ft., Mineral Co., Nev.

Took 7 in sand north of camp - Atriplex and Chrysothamnus? of tall habit.

Tracks and burrows are everywhere in the softer sand. 35 traps.



*Microdipodops pallidus*.

July 4<sup>th</sup> 11  $\frac{3}{4}$  mi S, + 2  $\frac{3}{4}$  mi. E Herington, Mason Valley, <sup>Lyons Co., Nev.</sup>  
Took four in sandy draw - scattered  
growth of Atriplex - Soil generally  
loose sand.

July 9 3 mi S Shurz, 4100 ft, Mineral Co., Nev.  
Took two in sandy country  
north of camp and near R.R. tracks.  
irregular but tall Atriplex and  
Chrysothamnus. 35 traps



*Dipodomys microps microps*

July 8 ~~7 mi~~ Mt. Shuks, 4500 ft., Mineral Co. Nev.  
Took 2 on sandy slope colored dark  
by small black rocks - dwarf Artemisia.  
45 traps.



*Callospermophilus lateralis*

Trepidus.

Edge 1934

June 28

2 mi. S.W. Pine Grove, 7250 ft. Mineral Co. Nev.

One young ♀ taken in rock outcrop at top of ridge S. of camp, in Piñons. 9 traps there.

July 12

Lapon Canyon, 8900 ft., Mt Grant, Mineral Co., Nev.

Shot one young male on rock outcrop just above placer mine workings - surrounding vegetation was sage brush - Saw another at that point also -





*Eutamias minimus*

Edge  
1934

June 28 - 2 mi SW. Pine Grove, 7250 ft., Mineral Co., Nevada.

One young ♂ taken in gully SW of camp - among *Artemisia* - several others were seen in the same locality. 15 trap at that locality.

July 12 Lapon Canyon, 8900 ft., Mt Grant, Mineral Co., Nev.

Took one in rock outcrop surrounded by sage brush - west of camp about  $\frac{1}{4}$  mile.



Edge  
1934

*Eutamias quadri<sup>itt</sup>atus*

June 28 2 mi. SW Pine Grove 7250 ft. Mineral Co. Nev.  
One young ♀ taken in rock outcrop near  
top of ridge S. of Camp in Piñons. 9 traps  
out at that point.



*Onychomys leucogaster nevadensis*

July 8. 7 mi NW. Tarry, 4000 ft., Mineral Co., Nev.

Took one on E side of road - sand mixed with small black gravel - dwarf Atriplex - ground sloped west towards higher ridges. 48 traps.



*Pipistrellus hesperus*-

July 9, 3 mi. S Shurz, 4100ft., Mineral Co. Nev.

Shot one flying around trees shortly after sunset - They are fairly numerous here among the cotton wood trees and especially along the river - a few are out hunting well before sunset! Most numerous shortly after sunset.





Edge

1934

*Onychomys leucurus* -

July 8<sup>th</sup> 3 mi S Shurz - 4100ft. Mineral Co. Nev.  
Shot one in Atlatlach, sand belt north  
of camp.

July 10<sup>th</sup> Shot one near cottonwood trees west  
of camp. They are fairly numerous  
here - especially on the road to Shurz  
about two miles out where there is  
a barley & an alfalfa field next to the  
road.



Edge  
1936

# Thomomys quadratus

June 30 2 mi. SW Pine Grove, 7250 ft. Mineral Co., Nev.

2 ♀ taken in small patch of meadow at spring just N of camp - from 3 double sets. Soil - black loam with small pieces of broken rock -

July 12<sup>th</sup> Mt Grant, Lanyon Canyon 8900 ft., Mineral Co. Nev.

Took two in thick grassy meadow by the camp. Impressed me as being a little browner than those at Pine Grove.

July 13 - Took three in grassy meadow SE of camp about 100 yds - 3 sets - General of the mounds examined had three runways leading from the mound. Soil seems to be very fine grained loam. Mounds are fairly numerous in the narrow meadow or band of grass that lies on each side of the small brook which runs up the valley - In many places on the hillsides in Artemisia filled in snow runway could be found. These cylindrical structures generally ran transversely across the slope of the hill so that they should check rapid run off of water. Noted a few recent mounds out in the Artemisia.

July 15 Potterwood Creek 7400 ft., Mt Grant, Mineral Co., Nev.  
Took one in small meadow at top of first E slope 150 yds north of camp - Several other workings noted there.



Edgar  
1934

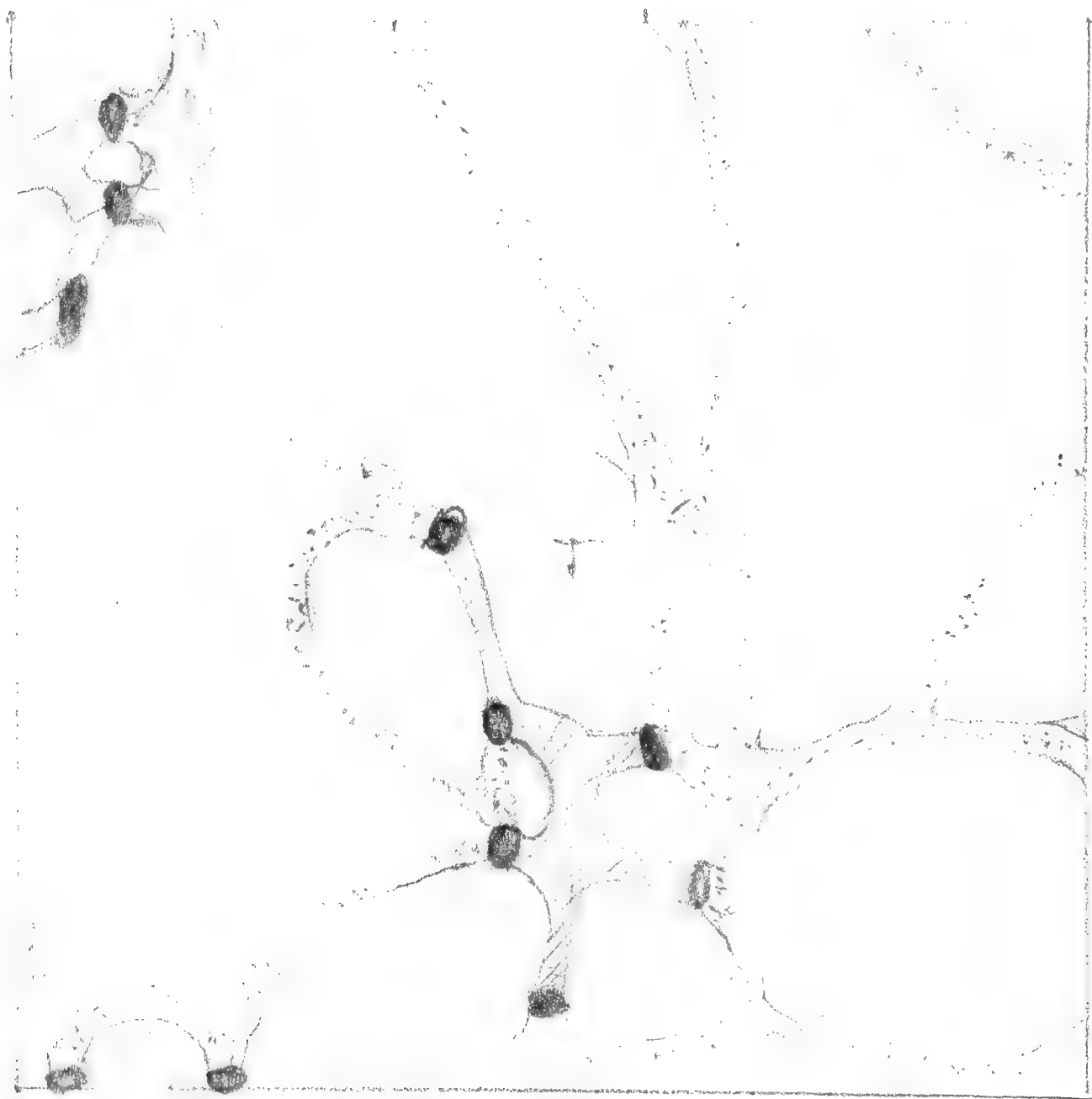
## Thomomys bottae

July 10 - 3 mi. S Shurz 4100ft Mineral Co. Nev.

Took three adults and one immature along river bank about 200 yds west of camp. Soil quite sandy supporting a straggling growth of young cotton-woods - Burrows are in damp sand about a foot and a half above the river water level. Took one more immature at six p.m. from one of the traps moved at 1<sup>00</sup> p.m. It ~~appears~~ seems that breaking open the burrow disturbs the animal if he is resting near - if he is too far away to be disturbed he probably isn't using that section of the burrow - as a result any long set in one burrow is not likely to be profitable?

Lapon Canyon 8900ft. Mt Grant.,  
 Mineral Co., Nev.  
*Microtus montanus*

N.



Runways and burrows  $3\frac{1}{2}$  to 4 cm wide - both  
 horizontal. Changing level.

Open runways, stippled

Under a small burrow, cross patch  
 burrow openings ●

Can't cut into tunnels many places  
 Prohibited by sheep - Grass of Runways  
 Preserved.

# Microtus montanus

○ faecal pellet.

July 13<sup>th</sup> Lapon Canyon 8900 ft., Mt Grant, Mineral Co. Nev.  
Took five - 3 adults - 2 immatures from 27 gopher traps set in bog about 150 yards SE of the camp - There are numerous tussocks or mounds thru which burrows run and between which the burrows run - cut grass and faeces are common in the runways - The more frequently used runway appear to be those not saturated with water nor yet dried out. The seepage <sup>which causes the bog</sup> extends along the base of the hill - N and S for about 100 yards - *Artemisia* starts immediately across the seepage line -

July 14<sup>th</sup> Made sketch of sq. meter of typical runway and burrows - (back opposite page) Found a little dried grass in central burrow - pressed specimen of same - it is the common grass around the runway - A number of ~~other mounds~~ dug open but only a couple of thin grass lined slightly enlarged places in the burrows found - All found had two or more openings. Faeces appeared to be accumulated in certain spots as tho the animals might have had a definite place for this purpose.





Edge

*Microtus moreax*

July 15<sup>th</sup> Cottonwood Creek 7400ft., Mt Grant, Mineral Co., Nev.

Took one in a trap placed in the middle of the small creek that enters Cottonwood Creek about 150 yds S of Camp. Trap was about  $\frac{1}{2}$  way up first E slope, willows and rose bushes lined banks -



Boyd  
1934

## *Neotoma cinerea*

July 15<sup>th</sup> Cottonwood Creek 7400ft., Mt Grant, Mineral Co., Nev.

Took two in 4 rat traps set in rock slide immediately S of camp on the W slope. Noted a number of openings between the rocks where there was patches of the white + green urinary? deposits and a considerable amount of faeces.



















